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Application No.: 10/788731

Case No.: 58210US004

Amendments to the Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (Currently amended) A method of identifying a compound that selectively modulates at least one TLR-mediated cellular activity, the method comprising:
- (1) providing an assay to detect modulation of a TLR7-mediated cellular activity and an assay to detect modulation of a TLR8-mediated cellular activity for each of a plurality of TLRs;
- (2) performing the assay to detect modulation of a TLR7-mediated cellular activity each assay using a test compound and human cells that naturally express TLR7;

performing the assay to detect modulation of a TLR8-mediated cellular activity using the test compound and human cells that naturally express TLR8; and

- (3) identifying the test compound as a compound that selectively modulates at least one TLR-mediated cellular activity if the test compound modulates the a-first TLR7-mediated cellular activity to a different extent than it modulates the at least one second TLR8-mediated cellular activity.
- 2. (Currently amended) The method of claim 1 wherein the compound modulates a first TLR7-mediated cellular activity and does not modulate a at least one second-TLR8-mediated cellular activity.
- 3. (Currently amended) The method of claim 1 wherein the compound modulates a TLR8-mediated cellular activity and does not modulate a TLR7-mediated cellular activity the plurality of TLRs comprises TLR6.
- 4-6. (Canceled)
- 7. (Withdrawn) A compound identified according to the method of claim 1.

- 8. (Withdrawn) A pharmaceutical composition comprising a compound identified according to the method of claim 1 or a prodrug thereof.
- 9. (Currently amended) A method of identifying a target compound having a TLR modulation profile that conforms to a target TLR modulation profile, the method comprising:
 - (1) selecting a target TLR modulation profile;
 - (2) determining the TLR modulation profile of a test compound; and
- (3) identifying the test compound as a target compound if the TLR modulation profile of the test compound conforms to the target TLR modulation profile.
- 10. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR6-mediated cellular activity.
- 11. (Original) The method of claim 10 wherein at least one TLR modulation profile comprises modulation of TLR6-mediated cellular activity.
- 12. (Original) The method of claim 11 wherein at least one TLR modulation profile comprises substantially no modulation of TLR7-mediated cellular activity.
- 13. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR7-mediated cellular activity.
- 14. (Original) The method of claim 13 wherein at least one TLR modulation profile comprises modulation of TLR7-mediated cellular activity.
- 15. (Original) The method of claim 14 wherein at least one TLR modulation profile comprises substantially no modulation of TLR6-mediated cellular activity.

- 16. (Original) The method of claim 14 wherein at least one TLR modulation profile comprises substantially no modulation of TLR8-mediated cellular activity.
- 17. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR8-mediated cellular activity.
- 18. (Original) The method of claim 17 wherein at least one TLR modulation profile comprises modulation of TLR8-mediated cellular activity.
- 19. (Original) The method of claim 18 wherein at least one TLR modulation profile comprises substantially no modulation of TLR7-mediated cellular activity.
- 20. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR9-mediated cellular activity.
- 21. (Original) The method of claim 20 wherein at least one TLR modulation profile comprises modulation of TLR9-mediated cellular activity.
- 22. (Original) The method of claim 9 wherein the target TLR modulation profile includes one or more TLR-mediated cellular activities that are not detectably modulated by a target compound.
- 23. (Withdrawn) A compound identified as a target compound according to the method of claim 9.
- 24. (Withdrawn) A pharmaceutical composition comprising a target compound identified according to the method of claim 9 or a prodrug thereof.
- 25. (Currently amended) A method of selectively modulating cells of the immune system, the method comprising:

- (1) identifying a first <u>human</u> immune system cell population that naturally expresses <u>TLR7</u> and a second <u>human</u> immune system cell population that naturally expresses <u>TLR8</u>;
- (2) selecting a compound that modulates a TLR7-mediated cellular activity of the first cell population to a different extent than it modulates a TLR8-mediated cellular activity of the second cell population; and
- (3) contacting cells of the immune system with the selected compound in an amount effective to modulate a TLR-mediated cellular activity of at least one of the cell populations.
- 26. (Original) The method of claim 25 wherein the method further comprises determining the TLR expression profile of the first cell population and the TLR expression profile of the second cell population.
- 27. (Original) The method of claim 26 wherein the step of selecting a compound comprises comparing the TLR expression profile of the first cell population and the TLR expression profile of the second cell population with a TLR modulation profile of the compound.
- 28. (Original) The method of claim 25 wherein modulating cells of the immune system comprises detectably activating the cells or detectably inhibiting the cells.
- 29. (Original) The method of claim 25 wherein the compound modulates the first cell population and does not detectably modulate the second cell population.
- 30. (Original) The method of claim 25 wherein the compound modulates both cell populations.
- 31. (Original) The method of claim 25 at least one cell population is modulated in vitro.
- 32. (Original) The method of claim 25 wherein at least one cell population is modulated in vivo.

- 33. (Original) The method of claim 25 wherein at least one immune system cell population comprises plasmacytoid dendritic cells.
- 34. (Currently amended) The method of claim 25 wherein at least one immune system cell population comprises monocyte[[s]]-derived dendritic cells.
- 35. (Withdrawn) A method of treating a condition treatable by selective modulation of a plurality of TLR-mediated cellular activities in a subject, the method comprising:
- (1) identifying a target TLR modulation profile effective for treatment of the condition;
- (2) selecting an IRM compound having a TLR modulation profile that conforms to the target profile; and
- (3) administering to the subject an amount of the IRM compound effective for treating the condition.
- 36. (Withdrawn) The method of claim 35 wherein at least one TLR modulation profile comprises TLR6-mediated cellular activity.
- 37. (Withdrawn) The method of claim 36 wherein at least one TLR modulation profile comprises modulation of TLR6-mediated cellular activity.
- 38. (Withdrawn) The method of claim 37 wherein at least one TLR modulation profile comprises substantially no modulation of TLR7-mediated cellular activity.
- 39. (Withdrawn) The method of claim 35 wherein at least one TLR modulation profile comprises TLR7-mediated cellular activity.
- 40. (Withdrawn) The method of claim 39 wherein at least one TLR modulation profile comprises modulation of TLR7-mediated cellular activity.

- 41. (Withdrawn) The method of claim 40 wherein at least one TLR modulation profile comprises substantially no modulation of TLR6-mediated cellular activity.
- 42. (Withdrawn) The method of claim 40 wherein at least one TLR modulation profile comprises substantially no modulation of TLR8-mediated cellular activity.
- 43. (Withdrawn) The method of claim 35 wherein at least one TLR modulation profile comprises TLR8-mediated cellular activity.
- 44. (Withdrawn) The method of claim 43 wherein at least one TLR modulation profile comprises modulation of TLR8-mediated cellular activity.
- 45. (Withdrawn) The method of claim 44 wherein at least one TLR modulation profile comprises substantially no modulation of TLR7-mediated cellular activity.
- 46. (Withdrawn) The method of claim 35 wherein at least one TLR modulation profile comprises TLR9-mediated cellular activity.
- 47. (Withdrawn) The method of claim 46 wherein at least one TLR modulation profile comprises modulation of TLR9-mediated cellular activity.
- 48. (Withdrawn) The method of claim 35 wherein the target TLR modulation profile includes one or more TLR-mediated cellular activities that are not detectably modulated by the IRM compound.
- 49. (Withdrawn) The method of claim 35 wherein the IRM compound is a TLR6-selective compound.
- 50. (Withdrawn) The method of claim 35 wherein the IRM compound is a TLR7-selective compound.

- 51. (Withdrawn) The method of claim 35 wherein the IRM compound is a TLR8-selective compound.
- 52. (Withdrawn) The method of claim 35 wherein the IRM compound is a TLR9-selective compound.
- 53. (Withdrawn) The method of claim 35 wherein the condition is an infectious disease or a neoplastic condition.
- 54. (Withdrawn) The method of claim 53 wherein the infectious disease is a viral disease, a fungal disease, a parasitic disease, a bacterial disease, or a prion-mediated disease.
- 55. (Withdrawn) The method of claim 53 wherein the neoplastic condition is an intraepithelial neoplasm, a pre-cancerous neoplasm, or a cancer.
- 56. (New) The method of claim 25 wherein the compound modulates the second cell population and does not detectably modulate the first cell population.

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